

ABSTRACT OF THE DISCLOSURE

A novel concentric pipe joint restraint is disclosed. The restraint is specifically designed to resist axial movement of an inner spigot pipe relative to an outer socket pipe with which it has been joined. The restraint, which operates within the annulus, generally comprises a spigot wedge ring, a socket wedge ring, and one or more specially designed wedge housings. The spigot wedge ring features one or more spigot gripping protrusions which, upon contact, frictionally engage the spigot pipe. The socket wedge ring similarly features one or more socket gripping protrusions which, upon contact, frictionally engage the socket pipe. The wedge housings position the spigot wedge ring and / or the socket wedge ring so that the gripping protrusions grip the pipes, preventing axial movement (whether separation or compression). The wedge rings generally feature at least one frusto-conical surface which engages an opposed frusto-conical surface on either another wedge ring or a housing resulting in a more effective engagement of the gripping protrusions upon the pipe walls.